

Express Mail No. EV333997600US

INFORMATION DISCLOSURE STATEMENT Address to: Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Attorney Docket	CLON-056US2
	First Named Inventor	TCHAGA, GRIGORIY S.
	Application Number	10/762,588
	Confirmation No.	3721
	Filing Date	January 21, 2004
	Group Art Unit	1652
	Examiner Name	Unassigned
	Title:	"METHODS AND COMPOSITIONS FOR PROTEIN PURIFICATION"

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. A Form PTO-SB/08A listing the references and copies of the cited references accompany this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record.

All of the references identified herein were disclosed in parent application serial number 09/858,332 filed 5/15/2001 and as such, copies thereof are not included pursuant to the provisions of 37 CFR § 1.98(d).

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one of the above references constitutes prior art to the present application within the meaning of 35 U.S.C. § 102.

As applicants have not yet received a first Action on the merits, no fee is believed to be required for filing this Disclosure Statement. If, however, the PTO finds that for some reason a fee is due, our Deposit Account No. 50-0815, Order No. CLON-056US2 may be charged thereon.

Respectfully submitted,
BOZICEVIC, FIELD & FRANCIS LLP

Date: May 13, 2004

By: 

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INFORMATION DISCLOSURE CITATION

Form PTO-1449 (Modified)

(Use several sheets if necessary)

ATTY. DOCKET NO.
CLON056CIPSERIAL NO. 09/858,332
Confirmation No.2176

APPLICANT

Tchaga et al.

FILING DATE

May 15, 2001

GROUP

1633

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA	4,569,794	02/11/1986	Smith et al.			
AB	5,284,933	02/08/1994	Dobeli et al.			
AC	5,310,663	05/10/1994	Dobeli et al.			
AD	5,439,829	08/08/1995	Anderson et al.			
AE	5,498,538	03/12/1996	Kay et al.			
AF	5,594,115	01/14/1997	Sharma			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation

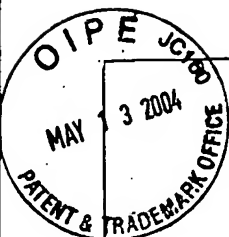
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AG	Ford et al. (1991) "Fusion Tails for the recovery and purification of recombinant proteins." <i>Protein Expression and Purification</i> , Vol. 2:95-107
AH	Hirota et al. (1990) "Nucleotide and Deduced Amino Acid Sequences of Chicken Lactate Dehydrogenase-A." <i>Nucleic Acids Research</i> , Vol. 18(21):6432
AI	Leuthardt et al. (1993) "Cloning, expression and purification of a recombinant poly-histidine-linked HIV-1 protease." <i>FEBS Letters</i> , Vol. 326(1-3):275-280
AJ	Ljungquist et al. (1989) "Immobilization and Affinity Purification of Recombinant Proteins Using Histidine Peptide Fusions." <i>Eur. J. Biochem.</i> , Vol. 186:563-569
AK	Moser et al. (1994) "Recombinant Expression and antigenic properties of a 32-kilodalton extracellular alkaline protease, representing a possible virulence factor from <i>Aspergillus fumigatus</i> ." <i>Infectious Immunology</i> , Vol. 62(3):936-942
AL	Nakajima et al. (1989) "Molecular aspect of myogenic hyperuricemia of human muscle phosphofructokinase cDNA." <i>Advances in Experimental Medicine and Biology</i> , Vol. 253A:485-491
AM	Nilsson et al. (1997) "Affinity Fusion strategies for Detection, Purification, and Immobilization of recombinant proteins." <i>Protein Expression and Purification</i> , Vol. 11:1-16

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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CLON056CIP

SERIAL NO. 09/858,332
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APPLICANT

Tchaga et al.

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AN	Smith et al. (1988) "Chelating Peptide-Immobilized Metal Ion affinity Chromatography." <i>The Journal of Biological Chemistry</i> , Vol. 263(15):7211-7215
AO	Stader et al. (1990) "Engineering Escherichia coli to Secrete Heterologous Gene Products." <i>Methods in Enzymology: Gene Expression Technology</i> , Vol. 185:166-185
AP	Walker et al. (1994) "Efficient and Rapid Affinity Purification of Proteins using 'Recombinant Fusion Proteases.'" <i>Biotechnology</i> , Vol. 12(6):601-605
AQ	Germino et al. (1983) "Use of gene fusions and protein-protein interaction in the isolation of a biologically active regulatory protein: the replication initiator protein of plasmid R6K." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 80:6848-52
AR	Itakura et al. (1977) "Expression in Escherichia coli of a chemically synthesized gene for the hormone somatostatin." <i>Science</i> , Vol. 198:1056-63
AS	Nilsson et al. (1985) "Efficient secretion and purification of human insulin-like growth factor I with a gene fusion vector in Staphylococci." <i>Nucleic Acids Res.</i> , Vol. 13:1151-62
AT	Smith et al. (1984) "Chemical synthesis and cloning of a poly(arginine)-coding gene fragment designed to aid polypeptide purification." <i>Gene</i> , Vol. 32:321-27

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EXAMINER

DATE CONSIDERED

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Notice of References Cited

Application/Control No. 09/858,332	Applicant(s)/Patent Under Reexamination TCHAGA ET AL.	
Examiner Kathleen M Kerr	Art Unit 1652	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-2003/0079237	04-2003	SATO, TAKA-AKI	800/8
	B	US-5,670,483	09-1997	Zhang et al.	514/14
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Chaga et al. Natural poly-histidine affinity tag for purification of recombinant proteins on cobalt(II)-carboxymethylaspartate crosslinked agarose. J. Chromat. (1999) 864:247-256.
	V	Giraldo et al. Characterization of a Plasmodium chabaudi gene encoding a protein with glutamate-rich tandem repeats. Parasitology Research (1999) 85:41-46.
	W	GenBank Accession Number AF019972. Plasmodium chabaudi NE-rich protein gene, March 23, 1999.
	X	Chaga et al. Immobilized metal ion affinity chromatography of Co2+-carboxymethylaspartate-agarose Superflow, as demonstrated by one-step purification of lactate dehydrogenase from chicken breast muscle. Biotechnol. Appl. Biochem. (1999) 29:19-24.

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.